

Homework 7

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1 Page 304: problem 2

```
Al <- c(2,8)
Bo <- c(1,5,7)
Che <- c(2,3)
Doug <- c(1,4,5,6,7)
Ella <- c(3,8)
Fay <- c(10,11)
Gene <- c(3,8,11)
Hal <- c(2,4,9)
Ian <- c(8,9,10)
John <- c(1,5,6,7)
Kit <- c(8,9)
Leo <- c(3,9,11)
Moe <- c(1,4,6,7)
Ned <- NULL
Paul <- c(9,10)
```

2 Page 307: problem 1

Consider the graph in Figure 8.11.

- 2.1 a. Write down the set of edges $E(G)$
- 2.2 b. Which edges are incident with vertex b?
- 2.3 c. Which vertices are adjacent to vertex c?
- 2.4 d. Compute $\deg(a)$
- 2.5 e. Compute $|E(G)|$

3 Page 320: problem 10

4 Page 330: problem 1

5 Page 330: problem 3

6 Page 338: problem 4